

# ENVIRONMENT AUDIT

STUDY PERIOD (TWO YEARS) 2020-21 & 2021-22

Sustainability study

## AUDIT REPORT

Studied for

Shikshana Prasaraka Mandali's

**Ramnarain Ruia Autonomous College**

L. Nappo Road, Matunga, Mumbai - 400019



Studied by

**Greenenvia**  
Solutions

Valid till **May 2023**

# Disclaimer

The Audit Team has prepared this report for the **Shikshana Prasaraka Mandali's Ramnarain Ruia Autonomous College** located at L. Nappo Road, Matunga, Mumbai - 400019 based on input data submitted by the College and analyzed by the team to the best of their abilities.

The details have been consolidated and thoroughly studied as per the various guidelines for Green Buildings available in National and International Standards; the report has been generated based on a comparative analysis of the existing facilities and the prerequisites formulated by various standards. The inputs derived are a result of the inspection and research. These will further enhance and develop a Healthy and Sustainable Institution.

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## Greenvio Solutions

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## Introduction

### About Shikshana Prasaraka Mandali

Founded in 1888, Shiksha Prasaraka Mandali is one of the pioneers of educational societies in our state. The institution since its inception is determined to build an environment that encourages the spirit of free-thinking, thus imparting quality education to more than 45,000 students.

S.P. Mandali owns educational institutions including pre-primary, primary, secondary, and higher secondary schools, colleges for Arts, Science, and Commerce, a school for hearing impaired children, a therapeutic drug monitoring laboratory, and an institute carrying out research in Ayurvedic and Herbal Medicine and management institutes.

### Assessment of the College

**NAAC** - The following are details of the reaccreditation of the College.

Cycle	First	Second	Third	Fourth
<b>CGPA</b>	NA	NA	3.65	3.70
<b>Grade</b>	Four star level	A Level	A	A+
<b>Year</b>	1999	2007	2012	2017

*Table 1: NAAC Accreditation details of the Institute*

The College is due to enter its Fifth cycle of NAAC.

### Total College Area & College Building Spread Area

The **total site area is 2 acres** and the **total Built-up area of the College is 1,12,062 sq. ft.** for a **total of 3,561 footfalls.**

## Environment Audit

A flora survey was carried out to identify the total number of plants and trees. The detailed study of each type of plantation is as follows.

S. No.	Plantation name	Nos.
<b>Located in the College garden</b>		
1	<i>Auracaria spp</i>	1
2	<i>Areca catechu</i>	18
3	<i>Magnifera indica</i>	3
4	<i>Livistonia chinensis</i>	1
5	<i>Saraca ashoka</i>	2
6	<i>Ficus benjamina</i>	2
7	<i>Carica papaya</i>	2
8	<i>Terminalia catappa</i>	1
9	<i>Rostonia regia</i>	4
10	<i>Lagerstoemia speciosa</i>	1
11	<i>Manihot esculenta</i>	1
12	<i>Azadricha indica</i>	1
13	<i>Chrysophyllum cainito</i>	1
14	<i>Sterculia foetida</i>	1
15	<i>Peltophorum pterocarpum</i>	2
16	<i>Artocarpous heterophyllus</i>	2
17	<i>Hymenodictyon orixense</i>	1
18	<i>Alstonia scholaris</i>	1
19	<i>Murraya exotica</i>	3
20	<i>Dracaena marginata</i>	1
21	<i>Polyalthia longifolia</i>	1
22	<i>Dracaena fragrans</i>	1
23	<i>Psidium guajava</i>	1
24	<i>Michelia champaca</i>	1
25	<i>Pisonia alba</i>	1
26	<i>Purtanjiva roxburghaii</i>	1
27	<i>Barringtonia asiatica</i>	Many
28	<i>Rhapis excelsa</i>	5
29	<i>Bougainvillea spp</i>	6
30	<i>Cordyline fruticosa</i>	1
31	<i>Dracaena spp</i>	3
32	<i>Oscimum sanctum</i>	5
33	<i>Hibiscus rosa sinensis</i>	4
34	<i>Taberna montana</i>	1



35	<i>Cestrum nocturnum</i>	1
36	<i>Croton spp</i>	3
37	<i>Beaumontia jerdoniana</i>	1
38	<i>Green croton</i>	2
39	<i>Pentas spp</i>	1
40	<i>Galphimia gracilis</i>	2
41	<i>Ixora spp</i>	2
42	<i>Ravenia spectabilis</i>	5
43	<i>Pandanus dubis</i>	6
44	<i>Vallis glabra</i>	5
45	<i>Dracaena fragrans</i>	2
46	<i>Exocoeceria cochinchinensis</i>	2
47	<i>Alpinia spp</i>	9
48	<i>Hymenocallis littoralis</i>	8
49	<i>Plerandra elegantissima</i>	3
50	<i>Polyscias scutellaria</i>	4
51	<i>Variogated chandni</i>	1
52	<i>Syngonium spp</i>	35
53	<i>Tradescantia bicolor</i>	15
54	<i>Philodendron spp</i>	5
55	<i>Epipremnum spp</i>	4
56	<i>Aglonema marantifolium</i>	5
57	<i>Dracaena spp</i>	5
58	<i>Diffenbachia seguine</i>	4
59	<i>Nephrolepis spp</i>	4
60	<i>Philodendron bipinatifidum</i>	3
61	<i>Oscimum sanctum</i>	8
62	<i>Sanseivera spp</i>	5
63	<i>Stenotapherum secundatum</i>	4
64	<i>Catharanthus roseus</i>	3
65	<i>Kalanchoe spp</i>	3
66	<i>Coleus spp</i>	3
67	<i>Hymenocallis littoralis</i>	2
68	<i>Dracaena godseffiana</i>	3
69	<i>Dianella tasmanica</i>	2
70	<i>Anthurium spp</i>	7
71	<i>Heliconia rostrata</i>	2
72	<i>Philodendron erubescens</i>	4
73	<i>Euphorbia mili</i>	4
<b>Located on the terrace</b>		
74	<i>Hibiscus spp</i>	3
75	<i>Strelitzia reginae</i>	5

76	<i>Ixora spp</i>	2
77	<i>Vinca rosea</i>	3
78	<i>Rose spp</i>	1
79	<i>Portulaca yellow</i>	15
80	<i>Ocimum sanctum</i>	5
81	<i>Ficus religiosa</i>	1
82	<i>Lemongrass</i>	20
83	<i>Opuntia spp</i>	2
84	<i>Syzygium cumini</i>	3
85	<i>Zamioculcas zamiifolia</i>	1
86	<i>Dracena spp</i>	2
87	<i>Sansiviera spp</i>	5
88	<i>Nephrolepis spp</i>	10
89	<i>Aloevera spp</i>	4
90	<i>Alcalypha hispida</i>	4
91	<i>Bougainvillea spp</i>	2
92	<i>Aglonema spp</i>	2
93	<i>Tradescantia bicolor</i>	2
94	<i>Rhodocactus grandiflorius</i>	2
95	<i>Coleus spp</i>	4
<b>Located on the Green House 1</b>		
96	<i>Hoya whitti</i>	2
97	<i>Pepromia spp</i>	3
98	<i>Cryptanthus spp</i>	5
99	<i>Cactus spp</i>	8
100	<i>Tradescantia zebrina)</i>	4
101	<i>Chlorophytum comosum</i>	2
102	<i>Plectranthus amboinicus</i>	2
103	<i>Diffenbachia spp</i>	4
104	<i>Crassula ovata</i>	2
105	<i>Turnera ulmifolia</i>	1
106	<i>Sansevieria trifasciata</i>	3
107	<i>Epiphyllum oxypetalum</i>	2
108	<i>Euphorbia mili</i>	3
109	<i>Asparagas densiflorus</i>	1
110	<i>Bromeliads spp</i>	6
111	<i>Fish tail fern</i>	4
112	<i>Pedilanthus tithymaloides</i>	1
113	<i>Clitorea ternatea</i>	2
114	<i>Cissus Quadrangularis</i>	3
115	<i>Plectranthus amboinicus</i>	1
116	<i>Catharanthus rosea</i>	2

<b>117</b>	<i>Cymbopogon citratus</i>	3
<b>118</b>	<i>Nephrolepis spp</i>	15
<b>Located on the Orchidarium</b>		
<b>119</b>	<i>Oncidium spp</i>	1
<b>120</b>	<i>Bulbophyllum sterile</i>	1
<b>121</b>	<i>Selaginella williamsoni</i>	2
<b>122</b>	<i>Nephrolepis cordifolia</i>	1
<b>123</b>	<i>Microsorium spp</i>	1
<b>124</b>	<i>Philaenopsis spp</i>	1
<b>125</b>	<i>Aglonema spp</i>	2
<b>126</b>	<i>Syngonium spp</i>	4
<b>127</b>	<i>Cymbidium aloifolium</i>	1
<b>128</b>	<i>Hoya wightti</i>	1
<b>129</b>	<i>Acampe praebrosa</i>	1
<b>130</b>	<i>Rinchostylus letusa</i>	1
<b>131</b>	<i>Blue vanda</i>	1
<b>132</b>	<i>Polydata imbricata</i>	1
<b>133</b>	<i>Vanda spp</i>	1
<b>134</b>	<i>Aloevera spp</i>	4
<b>135</b>	<i>Polystichum munitum</i>	1
<b>136</b>	<i>Amaranthus spp</i>	10
<b>137</b>	<i>Cleome viscosa</i>	2
<b>138</b>	<i>Malabar spinach</i>	2
<b>139</b>	<i>Pepromia spp</i>	4
<b>140</b>	<i>Murraya koenigi</i>	1
<b>141</b>	<i>Hybrid dendrobiums</i>	12

**Table 2: Details of the Trees on the premises**

At present, there are 141 types and 500 numbers of plantations on the premises.

